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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|-------------------------------|------------------------|
| 10/582,448 | 03/12/2007 | Jun-Qian Wang | A4-342 US | 1133 |
| 7590 Molex Incorporated 2222 Wellington Court Lisle, IL 60532 | 08/14/2008 | | EXAMINER WALBERG, TERESA J | |
| | | | ART UNIT 3744 | PAPER NUMBER |
| | | | MAIL DATE 08/14/2008 | DELIVERY MODE PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | | |
|------------------------------|------------------------|---------------------|--|
| Office Action Summary | Application No. | Applicant(s) | |
| | 10/582,448 | WANG, JUN-QIAN | |
| | Examiner | Art Unit | |
| | Teresa J. Walberg | 3744 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-5 is/are pending in the application.
 - 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) Claim(s) ____ is/are allowed.
- 6) Claim(s) 1-5 is/are rejected.
- 7) Claim(s) ____ is/are objected to.
- 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 12 June 2006 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. ____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____ . |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>3/12/07</u> . | 6) <input type="checkbox"/> Other: ____ . |

DETAILED ACTION

1. Claims 1-5 are objected to because of the following informalities:

Claim 1 refers to “a heat dissipating plate” at lines 7 and 9. The second occurrence should be changed to “the heat dissipating plate”.

In claim 1, at line 5, “the” should be deleted before “lower”.

In claim 1, at line 6, “are” should be “is” or “being”.

In claim 1, at line 6, there is no antecedent for “the flow passages”, since line 3 only recited a single “flow passage”.

Claim 1, line 9 refers to “the heat generating plate”. This should apparently be “the heat dissipating plate”.

In claim 2, line 1, “is” should be “are”.

In claim 4, line 5, “is” should be “are”.

Appropriate correction is required.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-3 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Wen-Chen (6,269,003).

Wen-Chen discloses a heat dissipating device (Fig. 3) as claimed including a radiator having a plurality of fins (17), a flow passage between two

adjacent fins (Fig. 4), the fins (17) being divided into a middle part and two side parts (Fig. 3), lower ends of the fins in the two side parts providing at least one passageway (Fig. 3), the passageway being connected to some of the flow passages (Fig. 3), the two opposing sides of the heat dissipating plate provide notches relative to the passageway of the radiator (Fig. 3), the heat dissipating plate (19) being located above the heat generating component and having two opposing sides (Fig. 3), at least one of the sides of the plate providing notches that correspond to the radiator passageways (Fig. 3), a fan (col. 2, lines 41) disposed on top of the radiator (Fig. 4), the fins (17) being fitted together in a stack (Fig. 3) and buckled together using a clip connection (at 173), a frame (16) disposed on the radiator and having an upper plate and two lateral plates set on the top and two sides of the radiator (Fig. 3), lower ends of the lateral plates having openings relative to the passageway (Fig. 3), the fan being arranged on the upper plate corresponding to the through hole (col. 2, lines 41).

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wen-Chen (6,269,003) in view of Chen (6,104,609).

Wen-Chen discloses a heat dissipating device having the claimed structure with the exception of the lower ends of the two lateral plates of the frame having grooves, the opposing two sides of the plate having flange ribs on the two sides, the ribs being inserted into the grooves to fix the radiator and frame on the heat dissipating plate.

Chen discloses a heat dissipating device including lower ends of the two lateral plates of the frame having grooves (53 in Fig. 4), the opposing two sides of the plate having flange ribs (71) on the two sides, and the ribs being inserted into the grooves to fix the radiator and frame on the heat dissipating plate (Figs. 4 and 5).

It would have been obvious in view of Chen to provide the lower ends of the two lateral plates of the frame having grooves, the opposing two sides of the plate having flange ribs on the two sides, the ribs being inserted into the grooves to fix the radiator and frame on the heat dissipating plate in the heat dissipating device of Wen-Chen, the motivation being to securely hold the parts of the device together.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Lu, Lee et al, and Sas et al are cited to show relevant heat dissipating devices.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Teresa J. Walberg whose telephone number is 571-272-4790. The examiner can normally be reached on M-F 8:00 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on 571-272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Teresa J. Walberg/
Primary Examiner, Art Unit 3744

/TW/